Society of Wireless Pioneers - California Historical Radio Society Serials



7th and Alemeda stn.

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A.F. Krenke 1903 at Los Angeles.

downtown office 1903

VIA AIR M

Maternelon Freak at the 7th and Alameda st Statition 1904.

Pacific Wireless Company at Mt. Tamalpias Feb 22, 1906 just before the earthquake in S.F.

Construction crew left Krenke right Mr. Braford making the coil form.

VIA AIR M

erc Pacific Wireless Company

Installation crew at Mt. Tamaipias Feb. 22, 1906 just before the earthquake.

United "ireless Stations

Photo by Gordon Haw. Right Eden naw in the shop at Seattle.

The top floor of the building is occupied by the machine shop. Here the material in the rough is taken and the work of turning it into the various devices for sending aerogram is started

The seden floor is used as an office drafting room and testing room. On this floor also are located the nickel plating and polishing departments. A general store room and shipping ApaABet occuppy the remainder of the floor. The wireless instrucments are set up and teste t thorougly before going to the shipping room. The testing department is one of the most interesting places in the establishment . It is equipped with two memmoty switchboards, from both direct and alternating current can be obtained, of almost any voltage desired. Every piece of apparatus is sent to the t sting room and given what is know as the break down test. f and deft is discoverd the instrument is returned to the manufacuring department.

United Wireless Station **PC** Astoriam Oregon 1907 Alfred Ferland first operator in charge. Oregon historical society

VIA AIR M

United Wireless Stations Eureka PM 1911-12 2 KW Spark and Heliz.

United Wireless Stations.

St. Helens "regon "KE"

Left to right Cliff Watson, Jess B. Wee and Bill Vetter 6/21/1910

Cliff writes home:

VIA AIR Dear Mother and Father: This is a picture of the station. The engine room house is on the left and the operating room on the right. To the left, Watson the present nite man, on the left and the operating room on the right. To the left, werk fine. Weed the day man andVetter the former nite man. An well and like the work fine.

Unknown op 1 n doorway 1909

United Wireless Station PX

Marshfield, Oregon.

The Marshfield station changed its name to Coos Day, Oregon. Ships coming up the coast losing contact with Eureka PM shifted to copy PX a til they could reach PC at Astoria on the Columbia Aiver.

VIA AIR

United Wireless Station San Pedro "PJ" in 1911

United Wireless Aerogram forms.

VIA AIR

United wireless Station Shipboard Installation.

Bank of 12 Leyden jars on top of which is a heliz shown at right, Open core transformer underneath. Control Panel type ^L tuner loose coupler and antenna switch in left and center. Anchor gap above clock

photo Nel Nelson Seattle in charge 1907-10

VIA AIR I

Marconi Wireless Telegraph Station Wireless Station PB at Ketchikan, Alaska 1912

VIA AIR I

Pacific wireless Co. Atation Avalon Catalina Island 1903

A.F. Krenke standing in the doorway

1×PH 1916

VIA AIR

Ship

Sailing Ship Archer

Archer at the dock in Roche Harbor , Wash. The Archer ca ried lime made at Roche Harbor and was one of the earliest vessels on t e West Coast to carry wireless equipment.

photo T.C Smith Seattle

Sailing ship Ar ner at sea 1910

VIA AIR

U.S. Army Stations

Norton Sound Alaska.

VIA AIR

U.S. Army stations Northern Commercial Company Plant St. Michaels, Alaska. U.S. Wireless Telegraph station

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187 1

VIA AIR I

U.S. Army Signals Nome Alaska, 1912

VIA AIR I

Equipment

201

20

Mineral Detector Holder "fd. by E.I. Co.

This little device was used about 1905 to hold such minerals as carborundum, molybdenum and silicone for detectors. The pressure on the surfaces could be varied by adjusting the thumb screws.

Equipment - Murdoc 1 KW Rotary Spark gap transmitter.

VIA AIR I

VIA AIR

Equipment Kilburn and Clark Spark set 1917

VIA AIR M

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Montana Power Co.

Station at Lewistown, 1916. Thom, son Falls.

34

J.C. Dow.

32 35

VIA AIR

Montana Power Co.

Great Falls, Mont. KXx KLZ Mainbow Plant. This was one of the chain of stations 300 miles p apart connecting "ewiston, Butte, Mainbos and Thompson Falls. The stations were used for power dispatching. World War one closed them down. Engineer in charge was Cliff Watson. View show a 2 KW rolary gap, glass plate condenser and a Moorehead tube receiver.

VIA AIR I

Montana Power Co. Thompson Fall, Transmitter 1916. Installed by Watson and Hallock. 20,000 volts and a

rotary spark gap on 1600 meters.

Marconi Wireless Marshall Calif. "ecciving.

VIA AIR I

Northwestern Power Com.

31

Station PNW Portland, Oregon. May 1914. Installed by Hallock and Watson.

VIA AIR M

United Wireless Co. Installer G.L. Mellegan

Operators

H.C. Capwell

Operator on the SS City of Seattle Pacific Coast SS Co.

VIA AIR I

Operators

Reggie Baer right and Bill Erick left on the SS Maui, Matson Line in 1920. This was Baer's last run for 20 years until WWII.

VIA AIR M

Operators: Reggie. Baer left. Marsteller, right 1915 aboard the SS China, China Mail Co.

Operators

Reggie Daer and Dill Brick

SS President 1911 Pacific Coast SS Co.

VIA AIR

Operators

Charles B. Cooper

Seated on the first radio-tail-e-hone at the eadville, Colorada United Wireless Station 1905. "CBC" in 1904 demonstrated wireless for Dr. wee Deforest at the St. Louis Exposition. Later was an installer for United and then organized the Ship owners Radio Service in Seattle, Wash. Now retired on Long i Island "ell known on the West Coast and one of the realy old time wireless men.

VIA AIR M

Operators

Syd Fass on the SS San Juan, 1912

49

Left to right: Jim Crouse, Walton W. Mee and Malph Norgard right. They were on the SS General Lee in 1935.

VIA AIR

Operators

H. Campbell at Eureka "PA", July 23, 1912

VIA AIR

Operators

Malarin, 1911

Hiring agent for the Marconi Co. S.F. Calif.

Operators

Orin Mock, 1912

Aboard the SS Centralia a coastwise lumber schooner.

Operators

Marty Principe, 1918

Matson Liner 35 Enterprise.

Operators

Syd Fass on the San Juan 1912

Marstelle 36 China 1915

VIA AIR

VIA AIR

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Operator Cliff Watson

See story on Watson for information

VIA AIR

Operators

Joe Hallock SS Alaska, 1917

VIA AIR

Operators

Walter Tease: Born in Portland and started going to sea with SORS in 1916. Was mostly on Alaska steamship company ships until he retired in 1934.

VIA AIR I

Operators

George Hubbard

1911

George 5. Hubbard wireless operator posses the distinction of having flashed the first alarming SOS signals from the Pacific Mail Liner Asia which left her bones on Finger Mock, off the China coast in 1911

Hubbard was on duty when the fatal crash came that imprisioned the Asia on the jagged rocks. Patience and persistence in attention to his key and sounder soon rewarded him that his siggals of SO^S had been received in Shanghai. Soon speedy relief reached the hundreds of passengers left mar oned on a small and desolate island, surrounded by a mob of maddened and bloodthirsty Chinese pirates who would not stoop to anything to gin much coveted treasure believed to have been placed onboard the liner before her departure from Hong Kong. Hubbard later served on te Sierra and Beaver.

manufacture and the second

Operators

Dick Johnstone standing in front of KHP masts, April 1917. When the U.S. Navy took over the coastal stations. There are two masts just the same heigth 250 feet and spaced 500 feet apart. The insulators were made of Oak and two feet long. Dick was on duty at KPH in 1916 when lightening hit this very mast and it knocked off 25 feet of it and burned all the receiving equipment. Marconi Wireless Co. owned the station at this time. Turing the war one KPH changed to NWO and went back to KPH in 1919.

During the storm KPH was out. Cecil Cronkhite handled tfk from his station at the Presidio.

##60-----

Operators

Wireless operator Jacobson on the So Norwood which ran aground during a snowstrom in the inland passage to Alaska.

VIA AIR N

VIA AIR M

Operators

Cliff Watson at the Dwey Aine near Grangerville, Idaho August 1906 Schmidt-Wilkes phones, silicone detector and a three slide tuner "syntonizer"

VIA AIR

Operators

Cliff Watson at the Electricians ball, Thomspon Falls Mont. Dec. 1916. Cliff demonstrating a Tesla Coil powered from the stations power supply.

VIA AIR M

Operators

W.A. Vetter and Wood. Operators on the SS Bear, 1910 at the Portland Exposition.

J.B

VIA AIR M

Vetter 4731 17th st. S.F. Bill operated at KE, St. Helens, Ore. 1911-12

1.18 4 . 833.44 . 41.2 4 .

Operators

Front row left to right: J.S. Philbrick, G.S. Hubbard, W.J. Manahan Back row left to right: J.B. Wood, E.D. Stevens, W.A. Vetter.

VIA AIR

operators

Herb Slocum Naval Ingineer onboard the USS California

VIA AIR M

Operators

Right Jack Wiehr second op on the staring Admiral Schley 1912

Ships-

SS Asia, April 23, 1911 River Pirates boarding her. See George Mubbard's story.

VIA AIR

Early Amateur Stations

ES Operated by Eugene Skinner in 1909

Main contact, Pacific Coast SS Co. and local contacts. Sometimes Navy ships in Magdalena ^Bay 500 miles souther were contacted in 1910

VIA AIR M

Ships

SS Senator, 1912

Many an old timer will remember the "Cigarette of the Pacífic" Called this because of the tall stack which occassionaly caught on fire and then burned up the wireless antenna.

During the day time the Senator could contact shore when she was 300 miles at sea. Signals did not fade out so rapidly over the water. At nite she could contact Astoria, Ore. from Unimak Pass beyond the Bering Sea. VIA AIR M

ney To Freque,



Tug Goliah in Arutan Bay , Alaska. At that time she with her sister ship were the most powerful tugs on the Facific Coasts. She was taken over by the navy in 1918 and last heard from convoying the surrendered German Fleet into Scapa Flow.

VIA AIR I

Ships

S5 Oliver Olson

Many young wireless operator made his first trip on this old coast-wise lumber schooner traveling from the Northwest to San Diego, Calif. around 1910-1912 **VIA AIR**

Ships

Lumber Schooner J.B. Stetson, 1911

VIA AIR I

SS Admiral Schley, 1913

VIA AIR

Ships

USS Saturn in A_{laska} during radio expedition about 1918.

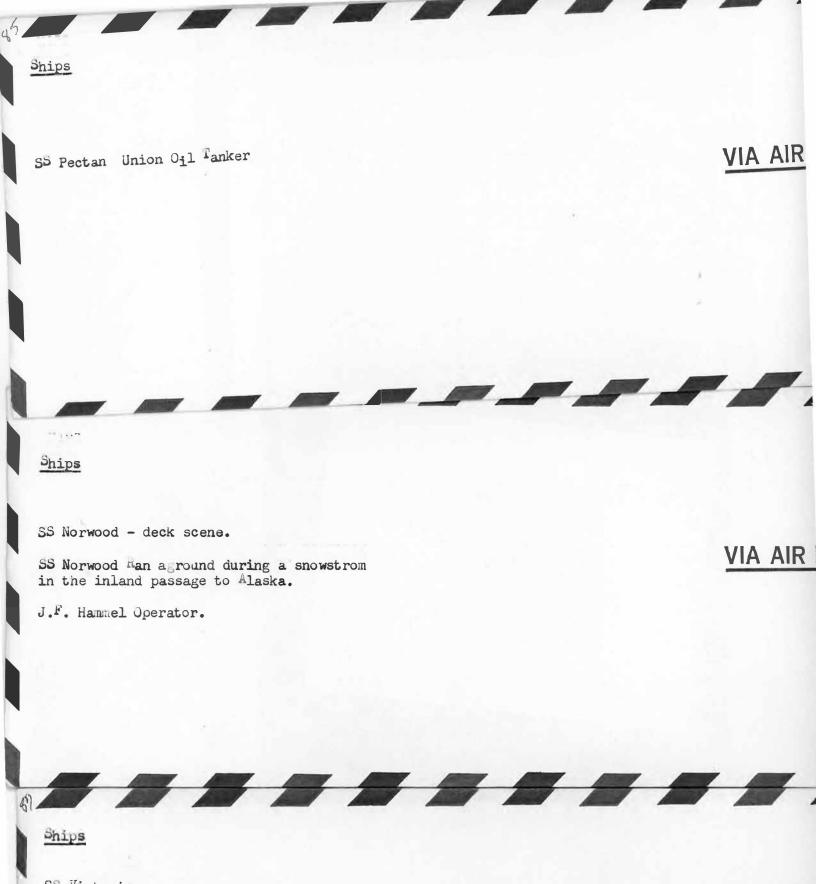
VIA AIR

hips

SS Starr Tied up at the dock in Alaska. Dexter Dartlett operator at the time.







VIA AIR

SS Victoria

Btuck in the ice.

SS Victoria "WAD" launched in 1870 for the Gunard Line was Queen of the Atlantic for many years. Transport during Spanish American War and then sold for junk in 1957. She had been used by the Alasak Steanship Go. It was the oldest passenger ship afloat being built of iron did not rust and made a good ship in the bearing Sea.

Donated by Dexter Bartlett.

Ships

4

SS City of Los Angeles KOZC

Ex-German ship "Kron Prinz de Gross". Duke Hancock Chief operator 2 years. Second op Cameron and 3rd op William Sommers.

2 KW 500 cycle quench spark and 5 KW Federal Arc.

Ships

City of Honolulu taken the next morning Oct. 13, 1922 from the deck of the SS West Farallane KDSX

VIA AIR M

VIA AIR



Wireless Shack SS Lurline, 1912

VIA AIR I



SS Crook anchored at Anchorage, Alaska. Dexter Dartlett photo

VIA AIR I



Ships

SS West Farallone

Rescue ship for the ^City of Honolulu. Picture taken from the deck of the USAT Thomas.

Ships

SS Northwester about 1913. Jperator Gordon Haw.

log & made trij to nome 1917 VIA AIR I

Ships

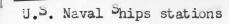
SS Nevadan about 1912. Telefunker 2 KW spark set. Every time the transmitter was keyed the ships lights would go out.

VIA AIR M



RCA Hawaii

How the maste are erected at Koko Head. The masts arrived in short half sections. They are bolted together in the manner shown. The cage rises with the work. This method the mast construction is reliable and rapid. A 475 ft mast bing erected in four days.



USD Oakland, 1918

VIA AIR



U.S. Naval Ship Shacks.

USS New Jersey, 1914.

^This photo present an excellent ppportunity to compare the old and the new in Naval electronics. On the left is the series antenna condenser used to tune the higher wave lengths. The big switch is the wave changer.

VIA AIR

Ships

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City of Honolulu KUSD

D

Picture taken from the SS West Farallone KDSX. SOS sent 800 miles out from Los Angeles with 5 KW Poulson arc transmitter. 1922

Oct. 5, 1922 Operators, Walter P. Bell H. Duke Mancock, William Gumlet. 2 KW Standard spark

02

VIA AIR

Naval Ship Stations

103

USS Cuyama, April 1917

Shown at the top, loading coil and transformer. The quenched gap is behind the blower.

VIA AIR

VIA AIR I

U.S. Naval Ships.

04

USS Ward, Nov. 1918

Top left , pancake loading coil, next to it the RF ammeter, then the lightening switch . Underneath the loading coild is the coupling unit and wave changer.

In the lower left corner is the 500 cycle rotary ap, back of it the power transformer 20,000 v.

Next to the transformer is the quenched spark gap.

U.S. Naval Shore Stations

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NPX loading coil about May 1920.

VIA AIR

106

U.S. Xay Navy Shore Stations.

U.S. Naval Aadio Station at Cordova, Alaska, 1918.

A see Laber

Operating position of Mile 14. Station could be controlled from Mile 7 at Valdez, Alaska.

VIA AIR



Navy Shore Stations

U.S. Naval Madio Station Point Arguello, Calif.

Phot of the old tower coming down.

U.S. Naval Shore Stations.

108

NPK Point Arguello. Lelefunken Equipment.

VIA AIR

U.S. Naval Shore Stations.

1091

NSS Anapolis, Md. 1918 500 KW Arc. Solid metal m magnet and field coil

VIA AIR

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U.S. Navy Shore station

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U.S. Naval Radio Station NPL San Diego 1916. East tower 600 feet high.

U.S. Naval Shore Stations

111

NPL San Diego 200 KW arc, 1918

VIA AIR

U.S. Naval Shore Stations

Nebosboat 1905

NPI Farrallon Island, just off the coast of San Franciso. On the left is the oscillation transformer and Leyder jar condenser underneath. Below is the mercury interrupter used to break the primary of the transformer.

VIA AIR

U.S. Naval Shore Stations

NPL Pt. Loma about 1905

VIA AIR

Left coherer detector. Un wall hot wire ammeters and in front of it the primary and secondary conductive coupled oscillation transformer. Spark gap inside the muffler. Delow it is the glass transmitting condenser, back of it the high voltage transformer. To the left of the condenser is the transmitting key.

U.S. Naval Shore Stations

110

NPE, North Head, Wash. 1915. Mike Esposito from Mare Island on the mast.

VIA AIR

U.S. Naval Madio Shore Stns.

U.S. Navy Shore Station Inglewood, Valif. May 1920.

VIA AIR

J.S. Naval Shore Stations

Test Room at Mare Island Navy Yard 1919

How many of you could start the Arc? First you bring up the DC voltage to about 500 volts, then turn on the alcohol or gas. Then when the chamer is clear of air VIA AIR you pushed in the cathode carbon rod which draws and arc. After it is going for a few minutes you shift over to the ignition keyer. Each keyed character would break the arc.

- 4

Station in hina put up b Joe Hailock

Chain of stations for the Chinese government. Bamboo scaffolding to erect a mast.

VIA AIR

U.S. Naval "adio Shore stations.

Mare Island "adio crew about 1922. These fellows put up the 400 ft wood towers and stations on the West Coast.

VIA AIR M

Back Now left to right, ninth man is "Charlie Gunderson", ship's carpenter. 11th man is O'Hara. Second row, left to right lith man Mr. Pratt. Front row left to right, "Mike" Esposito antenna rigg 25th Joe Myall, leadingman antenna rigger. 26th man Gilbert W. Cattel in charge of the radio laboratory. 27th man Floyd Uunckly underwater sound and radio compass man. 28th man Bill Mcomber, radio shop supervisor . 29th man Hobert B. Stewart, Distric RMO office manger and former Chief at NPL. 30th man George Kan O'Hara Master radio electrician.

32nd man James B. Upchurch, asst radio shop supervisor 34th Lei Kumilike asst radio laboratorian.

U.S. Naval Radio Shore Stations

Raising top most towr at NPV Seward , Alaska 1917 Cliff Watson lead off ,an man

U.S. Naval Shore Stations.

Seward, Alaska. NPV

Picture of towers taken right after installation by Hallock and Watson in 1918. This US Naval Station was located about six miles out from town. The transmitter was a 5 KW VIA A quenched spark gap feeding into a six wire inverted "L" antenna. The operating and engine room building is shown on the right center. This station was part of the Ditka, Aodiak, Cordova and Dutch Harbor network

VIA AIR I

Naval Shore stations US

NPB, Sitka, Alaska 1948.

Operating position with new wave changer installed. Federal receiver with marble pahel and litz wire.

VIA AIR M

VIA AIR I

U.S. Naval Shore Stations.

Operating position XXX NPV 1918

De Forest Audion Box. and 5 Kw quenched spark gap. Two antennas were used for long and shorter waves.

During the winter months, snow static was especially bad in Alaska where the installing engineers were snowed in. Sometimes they couldt even contact a ship they could see coming in the harbor. Then on clear days they might work 1000 miles

U.S. Naval Shore Station

NPR Dutch Harbor, Alaska

On the left is the receiver. Near the front is the coil switch for 600 meters, 756 meters, 952 meters, 1200 meters and 2400 meters. These were called waves J,L,M,Q,P and so labeled. The station used a standard 8 wire antenna

VIA AIR

VIA AIR

U.S. Navy Shore Stations

12 22 20

U.S. Naval Radio Station FLZ at Croix D: Hins, France This station ran a full one million watts in 1919.

Fight towers , 800 feet high.

Frwquency shift keying on about 15 kc. Station installed by Joe Hallock or the Poulsen arc.

U. S° Naval Shore Station

Loading coils at NPV, 1918. Operating position shows antenna switch insulators. These insulators were made by Telefunken and sealed with lethard and glycern. During their construction some water must have gotten seal inside. When engineer Watson cranked up the power, the steam genera ed blew the insulator apart and it went across the room through the wooden shack wall.

235

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